

## INTERNATIONAL SEARCH REPORT

|                 |                      |
|-----------------|----------------------|
| Int             | ional Application No |
| PCT/EP 03/00707 |                      |

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H01J61/073 H01J61/86

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| Y          | EP 0 866 492 A (USHIO ELECTRIC INC)<br>23 September 1998 (1998-09-23)<br>page 4, line 15 - line 34<br>---   | 1-10                  |
| Y          | EP 0 647 964 A (PHILIPS ELECTRONICS NV)<br>12 April 1995 (1995-04-12)<br>column 1, line 14 - line 18<br>column 1, line 42 - line 44<br>tables 1,4,4A<br>--- | 1-10                  |
| Y          | US 5 789 850 A (KAWASHIMA HIROMICHI ET AL)<br>4 August 1998 (1998-08-04)<br>column 4, line 63 -column 5, line 37<br>column 7, line 36 - line 42<br>---      | 1-10                  |
| Y          | US 2001/035719 A1 (EHRLICHMANN DIETMAR ET AL)<br>1 November 2001 (2001-11-01)<br>paragraphs '0036!-'0039!<br>---  | 1-10                  |
|            | -/-   |                       |

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

Date of mailing of the International search report

9 July 2003

23/07/2003

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
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| A        | US 6 190 579 B1 (BILLINGS GARTH W)<br>20 February 2001 (2001-02-20)<br>column 1, line 60 -column 2, line 25<br>column 7, line 27-29<br>--- | 1                     |
| A        | US 2002/024280 A1 (MIYAMOTO HIROYUKI ET AL) 28 February 2002 (2002-02-28)<br>abstract; figures 1B,8B,15B<br>paragraph '0002!<br>-----      | 1                     |

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## Information on patent family members

In  
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PCT/EP 03/00707

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